ADHESIVO CARBOTEC LÁMINA

DESCRIPTION

Adhesivo Carbotec Lamina is an epoxy resin. Bi-component resin and free from solvents. It has great adhesion to all types of substrates, even without primer and high resistance to abrasion.

ADVANTAGES AND USES

- As an adhesive for carbon fiber sheets for structural reinforcement.
- As an adhesive for steel plate.
- Excelent adhesion: exceeds the coherence to the substrate.
- Fast curing.
- Filling of fissures / stable cracks/ wihtout movement.
- Leveling of surface defects such as honeycombs, hollows, etc.
- For shaping lips of concrete or metal joints without movement,
- Renovation of edges, mortars and concrete.
- Adhesive for elastic PVS membrane,
- High resistance to abrasion and impact.
- Curing without retraction.
- High resistance
- Easy to mix and apply.

SUITABLE SUBSTRATES

- The surface to be treated must be clean, desgreased and free from dust in order to obtain an adequate adhesion.
- On steel surfaces remove surface rust.
- It is recommended the pore of the concrete to be open or create a slight surface roughness to ensure adhesion.
- It is recommended to apply Implarest EPW when the quality of the concrete is insufficient.

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APPLICATION PROCEDURE

- Stir each component before mixing in order to elimite grounds.
- Add component B in its totality to component A. This ensures that the volumen ratio between component A and component B is correct.
- Mix in a low velocity electric mixer (less tan 300 rpm) for about 3 minutes, until getting a homogeneous gray mixture.
- Avoid air bubbles.
- Apply Adhesivo Carbotec Lámina with spatula.
- The surface must be clean, dry and free from dust before apliying Adhesivo Carbotec Lámina.
- It is preferred to apply the adhesive to the Carbotec carbón fiber sheet or steel plate.
- Apply the adhesive in such a way that it is not flat and uniform, but thicker in the center (approx. 5mm) and progressively thinner at the ends (approx. 1 mm).
- Press the Carbotec carbon fiber sheet or steel plate uniformly over the concrete to spread the adhesive. It is recommended to press with a hard rubber roller, which also removes air bubbles. Clean the excess adhesive before it hardens.
- Keep the pressure on the carbón fiber until the adhesive has hardened sufficiently.
- The final thickness of the adhesive coat is 1.5 mm to 2 mm.

RECOMMENDATIONS

- Mixing and application equipment should be cleaned with solvent.
- Remove hardened material by mechanical means.
- Consult our Technical Department for any application that might not be specified in this Technical data sheet.
- For additional information regarding the safe handling, transport, storage and use of the product, please refer to the label and the updated version of the product Safety data sheet.

CONSUMPTION ACCORDING TO DIMENSIONS (KG/M²)

Consult Lámina Carbotec technical data sheet.

PACKAGING AND STORAGE

5 kg containers.
Keep it in its original packaging in a dry place with temperatures that may go from 5ºC to 30ºC. Once the container is opened, its service life is considerably reduced, so it should be used as soon as possible. Rotate the stored product so that is does not exceed the expiration date (1 year).

TECHNICAL DATA

Properties	Value
Colour	Gray
Specific weight	1.7 gr/cm^3
Solid content	>99%
Viscosity	>12.000 cps
Post – life 25ºC	30 min 20ºC
Dry to touch	3 hours
Minimum operating temperature	5ºC
Walkable at foot	3 hours
Time between coats	3h. minimum– 24h. maximum
Average consumption	According to tables
Adhesion to concrete	>3 N/mm^2 (> own cohesion)
Adhesion to steel	>15 N/mm2
Tensile elongation at break	≥ 1%
Compressive strength	>150 N/mm^2
Tensile strength	>65 N/mm^2

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Resistance to freeze-thaw cycles	Excellent
Glass transition temperature (Tg)	+ 60 º C

(*)Typical values after curing for 7 days under a conditioned temperatura of 21ºC. Mechanical properties decrease at temperaturas abouve 50ºC.

CE MARK

CE

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ADHESIVO LÁMINA CARBOTEC

Key characteristics	Features	Harmonized technical specification	Harmonizedd Standard
Lifetime variation in adhesion	3.6 Mpa (inicial) 3.5 Mpa (15 min) 3.5 Mpa (30 min)	UNE-EN ISO 9514/1542	
Adhesion to steel/tensile strength	≥ 14 N/mm^2	UNE-EN 12188:2000	
Adhesion to steel/Shear resistance	≥ 50 N/mm^2 (50ºC) ≥ 60 N/mm^2 (60ºC) ≥ 70 N/mm^2 (70ºC)	UNE-EN 12188:2000	1504-4:2005
Modulus of elasticity in compression	> 2000N/mm^2	UNE-EN 13412:2008	
Glass transition temperatura (Tg)	≥ 40 ºC	UNE-EN 12614-1:2004	
Linear shrinkage	≤ 0.1%	UNE-EN 12617-1:2004	
Coefficient of termal expansion	≤ 100 µm/mºC	UNE EN 1770:1999	

LEGAL DISCLAIMER

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